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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference 03KP-PCT105	FOR FURTHER ACTION	SeeNotificationofTransmittalofInternati Examination Report (Form PCT/IPEA/4				
International application No. PCT/KR2003/000809 International Patent Classification (IPC) IPC7 A23L 1/10	International filing date(day/mo 21 APRIL 2003 (21.04.2 or national classification and IP	2003) 26 AUGUST 2002 (26.	•			
Applicant BULRO CORP. et al						
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). 						
These annexes consist of a total ofsheets. 3. This report contains indications relating to the following items: 1						
Date of submission of the demand 10 OCTOBER 2003		ate of completion of this report 16 DECEMBER 2004 (16.12.200	4)			
Name and mailing address of the IPE Korean Intellectual Prop 920 Dunsan-dong, Seo-g Republic of Korea	erty Office gu, Daejeon 302-701,	CHUNG, Kee Hyun				



International aplication No.
PCT/KR2003/000809

I. Basis of the report					
. With regard to the elements of the international application:*					
X the international application as originally filed					
X the description:	, as originally filed				
pages 1-13 pages	filed with the demand				
pages, filed with the letter of					
the claims:	, as originally filed				
pages 14 , as amended (together with	any statment) under Article 19				
pages, filed with the letter of	, filed with the demand				
the drawings: pages	, as originally filed				
nages	, filed with the demand				
pages filed with the letter of					
Puges	, as originally filed				
pages	, filed with the demand				
 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language					
furnished subsequently to this Authority in computer readable form					
The statement that the subsequently furnished written sequence listing does not ginternational applications as filed has been furinshed.					
The statement that the information recorded in computer readable form is identical to been furnished.	the written sequence listing has				
4. The amendments have resulted in the cancellation of:					
the description, pages None					
the claims, Nos. None the drawings, sheets None					
5. This report has been established as if (some of) the amendments had not been made, go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).	since they have been considered to				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation in this opinion as "originally filed." and are not annexed to this report since they do not contain and 70.17).	tion under Article 14 are referred to ontain amendments (Rules 70.16				
** Any replacement sheet containing such amendments must be referred to under item I and ann	nexed to this report.				

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.
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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-4	YES
	Claims	None	NO
Inventive step (IS)	Claims	2	YES
	Claims	1, 3, 4	NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims	None	No
•	Novelty (N) Inventive step (IS)	Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Novelty (N) Claims 1-4 Claims None Inventive step (IS) Claims 2 Claims 1, 3, 4 Industrial applicability (IA) Claims 1-4

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1:KR 1996-0004999 B

D1 relates to a method for instant dried alhpa-rice, comprising the steps of : (a) washing milled rice with water to remove contaminants adhered to the shell of the milled rice; (b) soaking the washed rice in water for 2-4hours, followed by dehydrating in air for 0.5-2hours; (c) charging the dehydrated rice into a cooker while maintaining the water temperature at 98-100°C, followed by hot water treating 10-15minutes to prepare boiled rice; (d) quickly cooling the boiled rice using a shower; and (e) placing the washed boiled rice in a vacuum drying chamber while maintaining the internal temperature at 80-90°C, and vacuum drying at an internal pressure of 1 torr or lower to maintain water content of the boiled rice at 1-8wt%.

Claim 1 relates to a method for preparing instant dried alpha-rice, comprising the steps of: (a) washing milled rice with water in a washer to remove impurities adhered to the shell of the milled rice; (b) soaking the washed rice in water for 3-120 minutes to evenly absorb water, followed by dehydrating in air for 3-30 minutes; (c) charging the dehydrated rice into a continuous rice cooker while maintaining the water temperature at 80-98°C, followed by hot water treating for 8-20 minutes to prepare boiled rice; (d) quickly cooling the boiled rice using a shower, followed by washing in a cooling tank; and (e) placing the washed boiled rice in a vacuum drying chamber while maintaining the internal temperature at 60-98°C, and vacuum drying at an internal pressure of 1 torr or lower to maintain water content of the boiled rice at 1-5% or less.

1. Novelty

Claim 1 is the same as D1 in the method for preparing instant dried alpha-rice comprising the steps of washing, soaking and dehydrating, boiling, cooling, and vacuum drying. However, they are different in the treating condition in each step and the step of cooling comprising 2 stages.

Thus, claims 1-4 are novel under PCT Article 33(2).

(Continued on Supplemental Sheet.)



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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V.

- 2. Inventive Step
- 1) Claim 1 relates to a method for preparing instant dried alpha-rice comprising the steps of washing, soaking and dehydrating, boiling, cooling, and vacuum drying, in which the treating conditions such as time for soaking(2 hours) and time for dehydrating(30 minutes) in step (b), a water temperature (98°C) and time for heating(10-15 minutes) in step (c), a temperature(80-90°C) and inner pressure(at most 1 torr) of a vacuum drying chamber and the amount of water(1-5%) in step (e) are partly same as those in D1. In addition, the technical feature of the cooling step comprising 2 stages can be easily considered by a person skilled in the art if necessary, and there is no remarkable effect therefrom.
- 2) Claim 3 defines a water temperature and time for heating in step (b), which come within the same scopes of a water temperature and time for heating of D1. Claim 4 defines the alpha-starch content of alpha-rice manufactured by the method of claim 1, but it is regarded as a mere result from the method of claim 1 and is thus not considered to generate any specific effect.

Accordingly, claims 1,3,4, are not inventive under PCT Article 33(3).

3) Claim 2 defines the time for soaking as 10-60 min. and the time for dehydrating as 3-20 min. in step (b), which is different from D1 and shows enhanced effect therefrom.

Thus, claim 2 is inventive under PCT Article 33(3).

3. Industrial Applicability

Claims 1-3 are industrially applicable under PCT Article 33(4).